**AP Statistics Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Ch. 26 Classwork**

|  |  |
| --- | --- |
| **Ethnic Group** | **Number in Sample** |
| White | 679 |
| Black | 51 |
| Hispanic | 77 |
| Asian | 190 |
| Other | 3 |

1. According to Census Bureau data, in 1998 the California population consisted of 50.7% whites, 6.6% blacks, 30.6% Hispanics, 10.8% Asians, and 1.3% other ethnic groups. Suppose that a random sample of 1000 students graduation from California colleges and universities in 1998 resulted in the following data on ethnic groups; these data are consistent with summary statistics contained in the article “Crumbling Public School System a Threat to California’s Future” (*Investor’s Business Daily*, November 12, 1999):

Do these data provide evidence that the distribution of ethnic groups of graduating college students differs from the distribution of ethnic groups of the state? Test the appropriate hypotheses using an alpha level of 0.01.

1. A researcher wishes to know whether there is a relationship between political philosophy and preferred news program among residents of a particular city who regularly watch the national news. A random sample of 300 regular watchers is selected.

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| --- | --- | --- | --- | --- |
|  | Network News | | | |
| Politics | ABC | CBS | NBC | PBS |
| Liberal | 20 | 20 | 25 | 15 |
| Moderate | 45 | 35 | 50 | 20 |
| Conservative | 15 | 40 | 10 | 5 |